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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/791,808	03/04/2004	Sang-in Lee	1572.1251	5234

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EXAMINER

ASSOUAD, PATRICK J

ART UNIT PAPER NUMBER

2857

DATE MAILED: 07/13/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/791,808

Applicant(s)

LEE, SANG-IN

Examiner

Patrick J. Assouad

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-37 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-18 is/are allowed.
- 6) ☒ Claim(s) 19, 21 and 22 is/are rejected.
- 7) ☒ Claim(s) 20 and 23-37 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 04 March 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|--|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____ |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>3/4/04</u> . | 6) <input type="checkbox"/> Other: ____ |

DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Information Disclosure Statement

2. Applicant is requested to provide a copy of "ISO 9283" (an apparent international standard related to Robot Performance Measurement) which is shown in Applicant's Figs. 13 and 14 but is not discussed anywhere in the instant Specification. This document is not readily available to the Examiner but appears very relevant to patentability of the instant claimed invention.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 19 and 21-22 are rejected under 35 U.S.C. 102(e) as being anticipated by Siegers et al. (US 2004/0215410 A1) filed 4/25/03.

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5. Siegers et al. disclose:

A system and method is used for measuring the performance of semiconductor processing tools. A software component may be used to define a set of performance variables and associate performance limits. From the set of performance variables, a set of variables may be selected to create a customized test for a particular tool. The system may be used to store the results of the tests within the system for fast comparison with the associated performance limits, with previous test results, or both. The system may be used to display an overall status of groups of performance variables. (abstract)

6. Also most notable from Siegers et al. are paragraphs 43-44:

[0043] The test file 170 is preferably stored on a computer-readable medium in controller 120. However, the test file 170 may be stored on a computer-readable medium in any suitable location such as in a computer coupled to the controller 120. In one embodiment, the test file 170 is a database. The test file editor 140 is preferably installed on the controller 120. However, test file editor 140 may be installed in any suitable location, including but not limited to a computer coupled to the controller 120 or a computer not coupled to the controller 120.

[0044] The fingerprinting test application 150, which is used to test the variables in the test file, is preferably installed on the controller 120. With the fingerprinting test application 150 installed on the controller 120, the fingerprinting test application 150 can advantageously collect certain measurements without manual entry. Because the controller 120 can access sensing devices within the tool, the controller 120 automatically measures the tool's performance as to certain variables, which the fingerprinting test application 150 collects without manual entry. Examples include without limitation: a pressure measured by a pressure sensor; the time required for a robot to perform a predefined movement; the electrical current drawn by a drive motor during the performance of a movement; and software release numbers of the control software installed on the tool. In some instances, the system can measure some variables semi-automatically, where testing requires physical setup or verification of setup before automatically measuring the variables (e.g., a boat of a certain type is installed before testing robotic loading). Once the physical setup or verification of setup is performed, the controller 120 automatically measures the tool's performance as to certain variables, which the fingerprinting test application 150 collects without manual entry. In addition to the automatically and semi-automatically measured variables, certain variables may require a manual inspection. Examples include without limitation: visually inspecting wires or manually measuring voltage applied to or current flowing through a heating element. These manually collected measurements can advantageously be entered into the fingerprinting test application 150 via any suitable input device (e.g., a keyboard, a mouse, a touch screen, or the like). In a preferred embodiment, the fingerprinting test

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application 150 is preferably installed in the controller 120. The fingerprinting test application 150 may be installed in any suitable location such as a computer coupled to the controller 120.

[with emphasis added by the Examiner]

7. The one-to-one correspondence between the instant claimed invention and that of Siegers et al. is: an object device is any of the semiconductor processing tools whose performance is being measured; a measuring device... is any of the sensing devices within any of the semiconductor processing tools; a computing device... [which] comprises a controller... is either the controller 120 or the separate but coupled computer discussed below or the combination also discussed above; a display... is the display of either the controller or computer; a picture... is any of the pictures or screen shots or screen displays shown in the Drawings of Siegers et al.; and finally, a user input... is the input device (e.g. a keyboard, a mouse, a touch screen or the like) discussed above.

8. As per dependent claim 21 which relates to the processing of the data inputted through the user input part and the measured data received from the measuring device, again see at least para. 0044 reproduced above.

9. As per dependent claim 22 which relates to an operating system of the computing device, all computing devices require some form of operating system to be operable.

Allowable Subject Matter

10. Claims 1-18 are allowed.
11. Claims 20 and 23-37 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

12. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See the attached PTO-892. Most notable are the various robot test packages current available from various commercial entities.
13. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Patrick J. Assouad whose telephone number is 571-272-2210. The examiner can normally be reached on Tuesday-Friday, 6:30am-5:00pm.
- If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marc Hoff can be reached on 571-272-2216. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Patrick J Assouad
Primary Examiner
Art Unit 2857

pja